

Monolithic Linear IC

**SANYO**

No.1700E

**L780S00 Series**5 to 24V 1A 5-Pin Voltage Regulators  
with Strobe Pin**Features**

- Output voltage
 

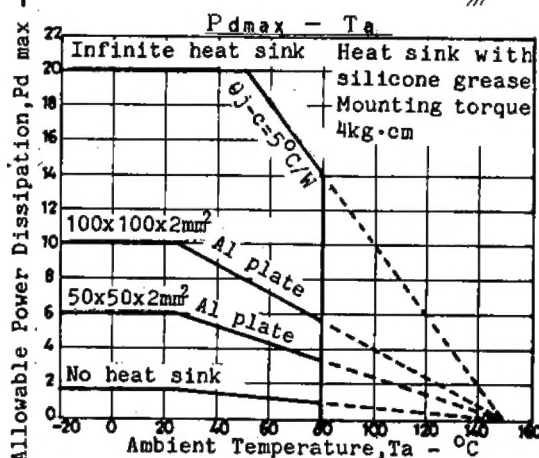
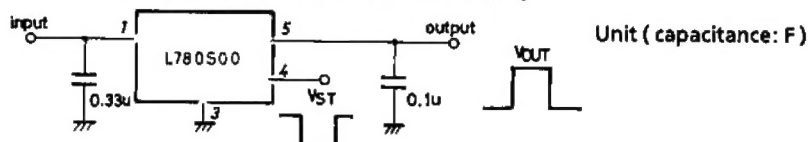
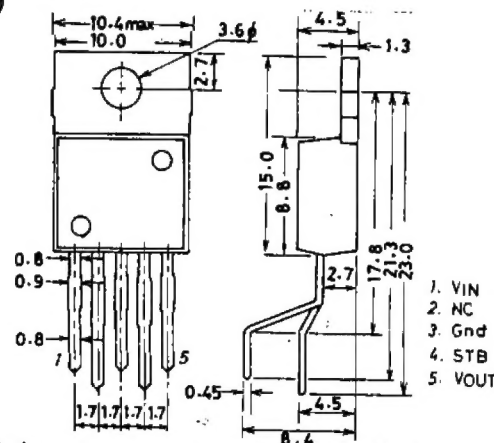
L780S05: 5V	L780S06: 6V	L780S07: 7V
L780S08: 8V	L780S09: 9V	L780S10: 10V
L780S12: 12V	L780S15: 15V	L780S18: 18V
L780S20: 20V	L780S24: 24V	
- The strobe pin can be used to turn ON/OFF output voltage (active-low).
- 1A output current.
- On-chip thermal protector.
- On-chip overcurrent limiter.
- On-chip ASO protector.
- The use of package TO220-5H (5 pins) facilitates mounting and thermal design.

**[Common to L780S00 series]****Maximum Ratings at Ta=25°C**

			unit
Maximum Supply Voltage	$V_{CCmax}$	Pin 1	35 V
Strobe Input Voltage	$V_{STmax}$	Pin 4	18 V
Strobe Input Current	$I_{STmax}$	Pin 4	5 mA
Allowable Power Dissipation	$P_{dmax}$		1.75 W
		$T_c=25^\circ\text{C}$	20 W
Thermal Resistance	$\theta_{j-c}$		5 $^\circ\text{C/W}$
Operating Temperature	$T_{opr}$		-20 to +80 $^\circ\text{C}$
Storage Temperature	$T_{stg}$		-55 to +150 $^\circ\text{C}$

**Strobe Operating Characteristics at Ta=25°C**

	unit
Strobe Operation Start Voltage $V_{st(on)}$	2.4 V
Strobe Operation Stop Voltage $V_{st(off)}$	0.5 V

**DC Characteristics Test Circuit (Common to L780S00 series)****Package Dimensions  
(unit: mm)  
3079****SANYO Electric Co., Ltd. Semiconductor Business Headquarters**

TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110 JAPAN

8119YT/ N307TA/9047KI/7086KI/4045MW, TS No. 1700-1/9

# L780S00 Series

## L780S05

### Recommended Operating Conditions at Ta=25°C

Input Voltage Range	$V_{IN}$	7.5 to 20.0	V
Output Current Range	$I_o$	5 to 1000	mA

### Operating Characteristics at Tj=25°C, $V_{IN}=10V$ , $I_o=500mA$ , $V_{st}=0V$ , \*Ta=25°C

		min	typ	max	unit
Output Voltage 1	$V_{o1}$	4.8	5.0	5.2	V
Line Regulation 1	$\Delta V_{o1n1}$	$7V \leq V_{IN} \leq 25V$	3	100	mV
Line Regulation 2	$\Delta V_{o1n2}$	$8V \leq V_{IN} \leq 12V$	1	50	mV
Load Regulation 1	$\Delta V_{o1d1}$	$5mA \leq I_o \leq 1.5A$		100	mV
Load Regulation 2	$\Delta V_{o1d2}$	$250mA \leq I_o \leq 750mA$		50	mV
Output Voltage 2	$V_{o2}$	$7V \leq V_{IN} \leq 20V$ , $5mA \leq V_{IN} \leq 1A$	4.75	5.25	V
Current Dissipation	$I_{cc}$			8.0	mA
Current Dissipation Variation (Line)	$\Delta I_{cc1n}$	$7V \leq V_{IN} \leq 25V$		1.3	mA
Current Dissipation Variation (Load)	$\Delta I_{cc1d}$	$5mA \leq I_o \leq 1A$		0.5	mA
Output Noise Voltage	$V_{NO}$	$10Hz \leq f \leq 100kHz$ *	40		uV
Ripple Rejection	$R_r$	$f=120Hz$ , $8V \leq V_{IN} \leq 18V$	62	78	dB
Dropout Voltage	$V_{drop}$	$I_o=1A$	2.0		V
Output Short Current	$I_{os}$	$V_{IN}=35V$	0.75		A
Peak Output Current	$I_{op}$		2.2		A
Output Voltage at Strobe Mode	$V_{o(ston)}$	$V_{IN}=35V$ , $V_{st}=5V$ , $I_o=0$ , *		0.8	V
Current Dissipation at Strobe Mode	$I_{cc(ston)}$	"		3.0	mA
Strobe Input Current	$I_{st}$	"		1.0	mA

## L780S06

### Recommended Operating Conditions at Ta=25°C

Input Voltage Range	$V_{IN}$	8.5 to 21.0	V
Output Current Range	$I_o$	5 to 1000	mA

### Operating Characteristics at Tj=25°C, $V_{IN}=11V$ , $I_o=500mA$ , $V_{st}=0V$ , \*Ta=25°C

		min	typ	max	unit
Output Voltage 1	$V_{o1}$	5.75	6.0	6.25	V
Line Regulation 1	$\Delta V_{o1n1}$	$8V \leq V_{IN} \leq 25V$	5	120	mV
Line Regulation 2	$\Delta V_{o1n2}$	$9V \leq V_{IN} \leq 13V$	1.5	60	mV
Load Regulation 1	$\Delta V_{o1d1}$	$5mA \leq I_o \leq 1.5A$		120	mV
Load Regulation 2	$\Delta V_{o1d2}$	$250mA \leq I_o \leq 750mA$		60	mV
Output Voltage 2	$V_{o2}$	$8V \leq V_{IN} \leq 21V$ , $5mA \leq V_{IN} \leq 1A$	5.7	6.3	V
Current Dissipation	$I_{cc}$			8.0	mA
Current Dissipation Variation (Line)	$\Delta I_{cc1n}$	$8V \leq V_{IN} \leq 25V$		1.3	mA
Current Dissipation Variation (Load)	$\Delta I_{cc1d}$	$5mA \leq I_o \leq 1A$		0.5	mA
Output Noise Voltage	$V_{NO}$	$10Hz \leq f \leq 100kHz$ *	45		uV
Ripple Rejection	$R_r$	$f=120Hz$ , $9V \leq V_{IN} \leq 19V$	59	75	dB
Dropout Voltage	$V_{drop}$	$I_o=1A$	2.0		V
Output Short Current	$I_{os}$	$V_{IN}=35V$	0.75		A
Peak Output Current	$I_{op}$		2.2		A
Output Voltage at Strobe Mode	$V_{o(ston)}$	$V_{IN}=35V$ , $V_{st}=5V$ , $I_o=0$ , *		0.8	V
Current Dissipation at Strobe Mode	$I_{cc(ston)}$	"		3.0	mA
Strobe Input Current	$I_{st}$	"		1.0	mA

# L780S00 Series

## L780S07

### Recommended Operating Conditions at Ta=25°C

Input Voltage Range	$V_{IN}$	9.5 to 22.0	V
Output Current Range	$I_o$	5 to 1000	mA

### Operating Characteristics at Tj=25°C, $V_{IN}=12V$ , $I_o=500mA$ , $V_{st}=0V$ , \*Ta=25°C

		min	typ	max	unit
Output Voltage 1	$V_{o1}$	6.72	7.0	7.28	V
Line Regulation 1	$\Delta V_{o1n1}$	$9V \leq V_{IN} \leq 26V$	6	140	mV
Line Regulation 2	$\Delta V_{o1n2}$	$10V \leq V_{IN} \leq 14V$	2	70	mV
Load Regulation 1	$\Delta V_{old1}$	$5mA \leq I_o \leq 1.5A$		140	mV
Load Regulation 2	$\Delta V_{old2}$	$250mA \leq I_o \leq 750mA$		70	mV
Output Voltage 2	$V_{o2}$	$9V \leq V_{IN} \leq 22V$ , $5mA \leq V_{IN} \leq 1A$	6.65	7.35	V
Current Dissipation	$I_{cc}$			8.0	mA
Current Dissipation Variation (Line)	$\Delta I_{cc1n}$	$9V \leq V_{IN} \leq 25V$		1.3	mA
Current Dissipation Variation (Load)	$\Delta I_{ccld}$	$5mA \leq I_o \leq 1A$		0.5	mA
Output Noise Voltage	$V_{NO}$	$10Hz \leq f \leq 100kHz$ *		46	uV
Ripple Rejection	$R_r$	$f=120Hz$ , $10V \leq V_{IN} \leq 21V$	58	73	dB
Dropout Voltage	$V_{drop}$	$I_o=1A$	2.0		V
Output Short Current	$I_{os}$	$V_{IN}=35V$	0.75		A
Peak Output Current	$I_{op}$		2.2		A
Output Voltage at Strobe Mode	$V_{o(ston)}$	$V_{IN}=35V$ , $V_{st}=5V$ , $I_o=0$ , *		0.8	V
Current Dissipation at Strobe Mode	$I_{cc(ston)}$	"		3.0	mA
Strobe Input Current	$I_{st}$	"		1.0	mA

## L780S08

### Recommended Operating Conditions at Ta=25°C

Input Voltage Range	$V_{IN}$	10.5 to 23.0	V
Output Current Range	$I_o$	5 to 1000	mA

### Operating Characteristics at Tj=25°C, $V_{IN}=15V$ , $I_o=500mA$ , $V_{st}=0V$ , \*Ta=25°C

		min	typ	max	unit
Output Voltage 1	$V_{o1}$	7.7	8.0	8.3	V
Line Regulation 1	$\Delta V_{o1n1}$	$10.5V \leq V_{IN} \leq 25V$	6.0	160	mV
Line Regulation 2	$\Delta V_{o1n2}$	$11V \leq V_{IN} \leq 17V$	2.0	80	mV
Load Regulation 1	$\Delta V_{old1}$	$5mA \leq I_o \leq 1.5A$		160	mV
Load Regulation 2	$\Delta V_{old2}$	$250mA \leq I_o \leq 750mA$		80	mV
Output Voltage 2	$V_{o2}$	$10.5V \leq V_{IN} \leq 23V$ , $5mA \leq V_{IN} \leq 1A$	7.6	8.4	V
Current Dissipation	$I_{cc}$			8.0	mA
Current Dissipation Variation (Line)	$\Delta I_{cc1n}$	$10.5V \leq V_{IN} \leq 25V$		1.0	mA
Current Dissipation Variation (Load)	$\Delta I_{ccld}$	$5mA \leq I_o \leq 1A$		0.5	mA
Output Noise Voltage	$V_{NO}$	$10Hz \leq f \leq 100kHz$ *		52	uV
Ripple Rejection	$R_r$	$f=120Hz$ , $11.5V \leq V_{IN} \leq 21.5V$	56	72	dB
Dropout Voltage	$V_{drop}$	$I_o=1A$	2.0		V
Output Short Current	$I_{os}$	$V_{IN}=35V$	0.75		A
Peak Output Current	$I_{op}$		2.2		A
Output Voltage at Strobe Mode	$V_{o(ston)}$	$V_{IN}=35V$ , $V_{st}=5V$ , $I_o=0$ , *		0.8	V
Current Dissipation at Strobe Mode	$I_{cc(ston)}$	"		3.0	mA
Strobe Input Current	$I_{st}$	"		1.0	mA

# L780S00 Series

## L780S09

### Recommended Operating Conditions at Ta=25°C

Input Voltage Range	$V_{IN}$	11.5 to 25.0	V
Output Current Range	$I_o$	5 to 1000	mA

### Operating Characteristics at Tj=25°C, $V_{IN}=16V$ , $I_o=500mA$ , $V_{st}=0V$ , \*Ta=25°C

		min	typ	max	unit
Output Voltage 1	$V_{o1}$	8.64	9.0	9.36	V
Line Regulation 1	$\Delta V_{oln1}$	$11.5V \leq V_{IN} \leq 25V$	7	180	mV
Line Regulation 2	$\Delta V_{oln2}$	$12V \leq V_{IN} \leq 20V$	2	90	mV
Load Regulation 1	$\Delta V_{old1}$	$5mA \leq I_o \leq 1.5A$		180	mV
Load Regulation 2	$\Delta V_{old2}$	$250mA \leq I_o \leq 750mA$		90	mV
Output Voltage 2	$V_{o2}$	$11.5V \leq V_{IN} \leq 24V$ , $5mA \leq I_o \leq 1A$	8.55	9.45	V
Current Dissipation	$I_{cc}$			8.0	mA
Current Dissipation Variation (Line)	$\Delta I_{ccln}$	$11.5V \leq V_{IN} \leq 26V$		1.0	mA
Current Dissipation Variation (Load)	$\Delta I_{ccld}$	$5mA \leq I_o \leq 1A$		0.5	mA
Output Noise Voltage	$V_{NO}$	$10Hz \leq f \leq 100kHz$ *	57		uV
Ripple Rejection	$R_r$	$f=120Hz$ , $12V \leq V_{IN} \leq 22V$	56	72	dB
Dropout Voltage	$V_{drop}$	$I_o=1A$	2.0		V
Output Short Current	$I_{os}$	$V_{IN}=35V$	0.75		A
Peak Output Current	$I_{op}$		2.2		A
Output Voltage at Strobe Mode	$V_{o(ston)}$	$V_{IN}=35V$ , $V_{st}=5V$ , $I_o=0$ , *		0.8	V
Current Dissipation at Strobe Mode	$I_{cc(ston)}$	"		3.0	mA
Strobe Input Current	$I_{st}$	"		1.0	mA

## L780S10

### Recommended Operating Conditions at Ta=25°C

Input Voltage Range	$V_{IN}$	13.0 to 25.0	V
Output Current Range	$I_o$	5 to 1000	mA

### Operating Characteristics at Tj=25°C, $V_{IN}=17V$ , $I_o=500mA$ , $V_{st}=0V$ , \*Ta=25°C

		min	typ	max	unit
Output Voltage 1	$V_{o1}$	9.6	10.0	10.4	V
Line Regulation 1	$\Delta V_{oln1}$	$12.5V \leq V_{IN} \leq 28V$	8	200	mV
Line Regulation 2	$\Delta V_{oln2}$	$14V \leq V_{IN} \leq 20V$	2.5	100	mV
Load Regulation 1	$\Delta V_{old1}$	$5mA \leq I_o \leq 1.5A$		200	mV
Load Regulation 2	$\Delta V_{old2}$	$250mA \leq I_o \leq 750mA$		100	mV
Output Voltage 2	$V_{o2}$	$12.5V \leq V_{IN} \leq 25V$ , $5mA \leq I_o \leq 1A$	9.5	10.5	V
Current Dissipation	$I_{cc}$			8.0	mA
Current Dissipation Variation (Line)	$\Delta I_{ccln}$	$12.5V \leq V_{IN} \leq 25V$		1.0	mA
Current Dissipation Variation (Load)	$\Delta I_{ccld}$	$5mA \leq I_o \leq 1A$		0.5	mA
Output Noise Voltage	$V_{NO}$	$10Hz \leq f \leq 100kHz$ *	63		uV
Ripple Rejection	$R_r$	$f=120Hz$ , $13V \leq V_{IN} \leq 23V$	55	72	dB
Dropout Voltage	$V_{drop}$	$I_o=1A$	2.0		V
Output Short Current	$I_{os}$	$V_{IN}=35V$	0.75		A
Peak Output Current	$I_{op}$		2.2		A
Output Voltage at Strobe Mode	$V_{o(ston)}$	$V_{IN}=35V$ , $V_{st}=5V$ , $I_o=0$ , *		0.8	V
Current Dissipation at Strobe Mode	$I_{cc(ston)}$	"		3.0	mA
Strobe Input Current	$I_{st}$	"		1.0	mA

# L780500 Series

## L780S12

### Recommended Operating Conditions at Ta=25°C

Input Voltage Range	$V_{IN}$	15.0 to 27.0	V
Output Current Range	$I_O$	5 to 1000	mA

### Operating Characteristics at Tj=25°C, $V_{IN}=19V$ , $I_O=500mA$ , $V_{st}=0V$ , \*Ta=25°C

			min	typ	max	unit
Output Voltage 1	$V_{O1}$		11.5	12.0	12.5	V
Line Regulation 1	$\Delta V_{Oln1}$	$14.5V \leq V_{IN} \leq 30V$		10	240	mV
Line Regulation 2	$\Delta V_{Oln2}$	$16V \leq V_{IN} \leq 22V$		3	120	mV
Load Regulation 1	$\Delta V_{old1}$	$5mA \leq I_O \leq 1.5A$			240	mV
Load Regulation 2	$\Delta V_{old2}$	$250mA \leq I_O \leq 750mA$			120	mV
Output Voltage 2	$V_{O2}$	$14.5V \leq V_{IN} \leq 27V$ , $5mA \leq I_O \leq 1A$	11.4		12.6	V
Current Dissipation	$I_{cc}$				8.0	mA
Current Dissipation Variation (Line)	$\Delta I_{ccln}$	$14.5V \leq V_{IN} \leq 30V$			1.0	mA
Current Dissipation Variation (Load)	$\Delta I_{ccld}$	$5mA \leq I_O \leq 1A$			0.5	mA
Output Noise Voltage	$V_{NO}$	$10Hz \leq f \leq 100kHz$ *		75		uV
Ripple Rejection	$R_r$	$f=120Hz$ , $15V \leq V_{IN} \leq 25V$	55	71		dB
Dropout Voltage	$V_{drop}$	$I_O=1A$		2.0		V
Output Short Current	$I_{os}$	$V_{IN}=35V$		0.75		A
Peak Output Current	$I_{op}$			2.2		A
Output Voltage at Strobe Mode	$V_{O(ston)}$	$V_{IN}=35V$ , $V_{st}=5V$ , $I_O=0$ , *			0.8	V
Current Dissipation at Strobe Mode	$I_{cc(ston)}$	"			3.0	mA
Strobe Input Current	$I_{st}$	"			1.0	mA

## L780S15

### Recommended Operating Conditions at Ta=25°C

Input Voltage Range	$V_{IN}$	18.0 to 30.0	V
Output Current Range	$I_O$	5 to 1000	mA

### Operating Characteristics at Tj=25°C, $V_{IN}=23V$ , $I_O=500mA$ , $V_{st}=0V$ , \*Ta=25°C

			min	typ	max	unit
Output Voltage 1	$V_{O1}$		14.4	15.0	15.6	V
Line Regulation 1	$\Delta V_{Oln1}$	$17.5V \leq V_{IN} \leq 30V$		11	300	mV
Line Regulation 2	$\Delta V_{Oln2}$	$20V \leq V_{IN} \leq 26V$		3	150	mV
Load Regulation 1	$\Delta V_{old1}$	$5mA \leq I_O \leq 1.5A$			300	mV
Load Regulation 2	$\Delta V_{old2}$	$250mA \leq I_O \leq 750mA$			150	mV
Output Voltage 2	$V_{O2}$	$17.5V \leq V_{IN} \leq 30V$ , $5mA \leq I_O \leq 1A$	14.25		15.75	V
Current Dissipation	$I_{cc}$				8.0	mA
Current Dissipation Variation (Line)	$\Delta I_{ccln}$	$17.5V \leq V_{IN} \leq 30V$			1.0	mA
Current Dissipation Variation (Load)	$\Delta I_{ccld}$	$5mA \leq I_O \leq 1A$			0.5	mA
Output Noise Voltage	$V_{NO}$	$10Hz \leq f \leq 100kHz$ *		90		uV
Ripple Rejection	$R_r$	$f=120Hz$ , $18.5V \leq V_{IN} \leq 28.5V$	54	70		dB
Dropout Voltage	$V_{drop}$	$I_O=1A$		2.0		V
Output Short Current	$I_{os}$	$V_{IN}=35V$		0.75		A
Peak Output Current	$I_{op}$			2.2		A
Output Voltage at Strobe Mode	$V_{O(ston)}$	$V_{IN}=35V$ , $V_{st}=5V$ , $I_O=0$ , *			0.8	V
Current Dissipation at Strobe Mode	$I_{cc(ston)}$	"			3.0	mA
Strobe Input Current	$I_{st}$	"			1.0	mA

# L780S00 Series

## L780S18

### Recommended Operating Conditions at Ta=25°C

Input Voltage Range	$V_{IN}$	21.0 to 33.0	V
Output Current Range	$I_O$	5 to 1000	mA

### Operating Characteristics at Tj=25°C, $V_{IN}=27V$ , $I_O=500mA$ , $V_{st}=0V$ , \*Ta=25°C

		min	typ	max	unit
Output Voltage 1	$V_{O1}$	17.3	18.0	18.7	V
Line Regulation 1	$\Delta V_{Oln1}$		15	360	mV
Line Regulation 2	$\Delta V_{Oln2}$		5	180	mV
Load Regulation 1	$\Delta V_{old1}$			360	mV
Load Regulation 2	$\Delta V_{old2}$			180	mV
Output Voltage 2	$V_{O2}$	17.1		18.9	V
Current Dissipation	$I_{cc}$			8.0	mA
Current Dissipation Variation (Line)	$\Delta I_{ccln}$			1.0	mA
Current Dissipation Variation (Load)	$\Delta I_{ccld}$			0.5	mA
Output Noise Voltage	$V_{NO}$		110		uV
Ripple Rejection	$R_r$	53	69		dB
Dropout Voltage	$V_{drop}$		2.0		V
Output Short Current	$I_{os}$		0.75		A
Peak Output Current	$I_{op}$		2.2		A
Output Voltage at Strobe Mode	$V_{O(ston)}$			0.8	V
Current Dissipation at Strobe Mode	$I_{cc(ston)}$			3.0	mA
Strobe Input Current	$I_{st}$			1.0	mA

## L780S20

### Recommended Operating Conditions at Ta=25°C

Input Voltage Range	$V_{IN}$	23.0 to 35.0	V
Output Current Range	$I_O$	5 to 1000	mA

### Operating Characteristics at Tj=25°C, $V_{IN}=29V$ , $I_O=500mA$ , $V_{st}=0V$ , \*Ta=25°C

		min	typ	max	unit
Output Voltage 1	$V_{O1}$	19.2	20.0	20.8	V
Line Regulation 1	$\Delta V_{Oln1}$		15	400	mV
Line Regulation 2	$\Delta V_{Oln2}$		5	200	mV
Load Regulation 1	$\Delta V_{old1}$			400	mV
Load Regulation 2	$\Delta V_{old2}$			200	mV
Output Voltage 2	$V_{O2}$	19.0		21.0	V
Current Dissipation	$I_{cc}$			8.0	mA
Current Dissipation Variation (Line)	$\Delta I_{ccln}$			1.0	mA
Current Dissipation Variation (Load)	$\Delta I_{ccld}$			0.5	mA
Output Noise Voltage	$V_{NO}$		110		uV
Ripple Rejection	$R_r$	53	67		dB
Dropout Voltage	$V_{drop}$		2.0		V
Output Short Current	$I_{os}$		0.75		A
Peak Output Current	$I_{op}$		2.2		A
Output Voltage at Strobe Mode	$V_{O(ston)}$			0.8	V
Current Dissipation at Strobe Mode	$I_{cc(ston)}$			3.0	mA
Strobe Input Current	$I_{st}$			1.0	mA



# L780S00 Series

## L780S24

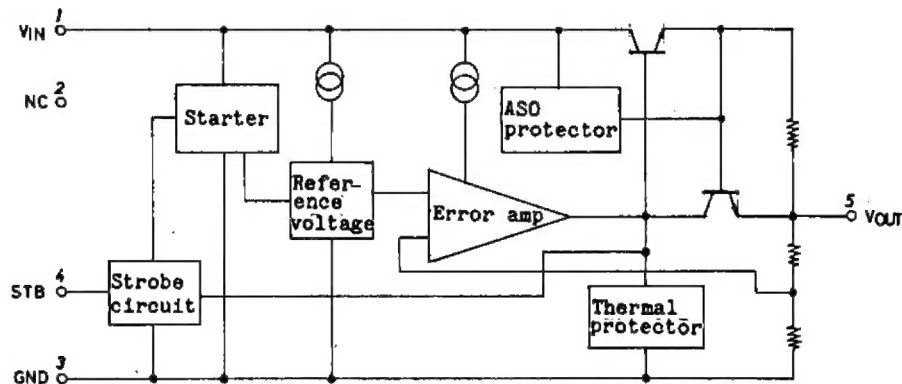
### Recommended Operating Conditions at $T_a=25^{\circ}\text{C}$

Input Voltage Range	$V_{IN}$	27.0 to 35.0	V
Output Current Range	$I_o$	5 to 1000	mA

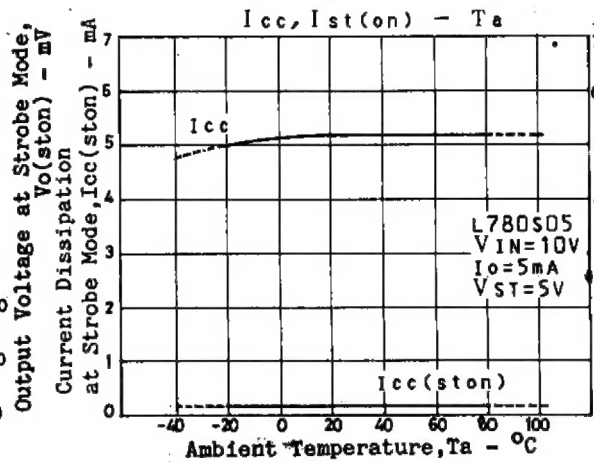
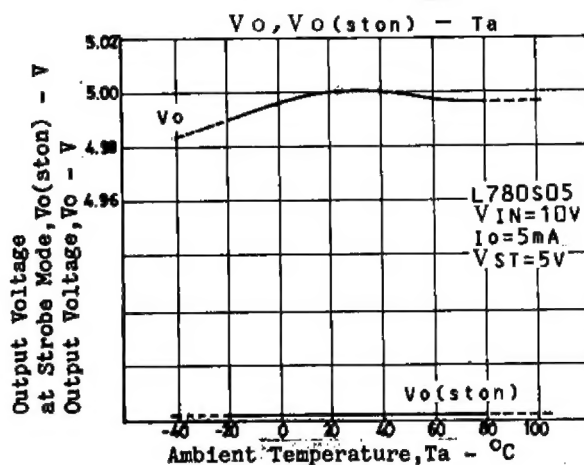
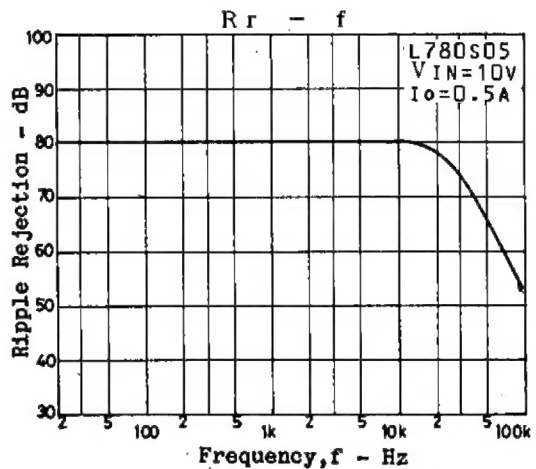
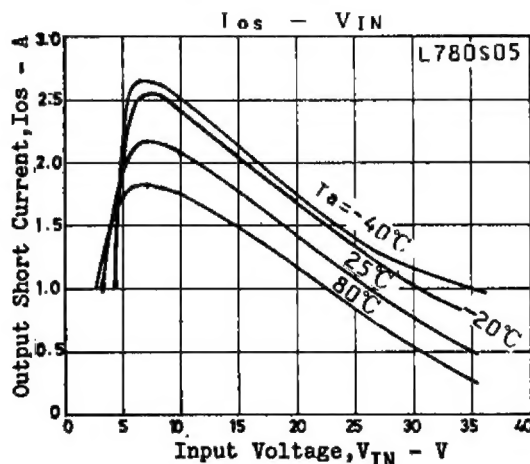
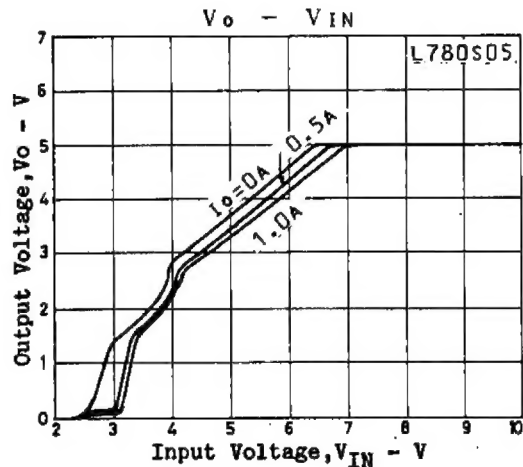
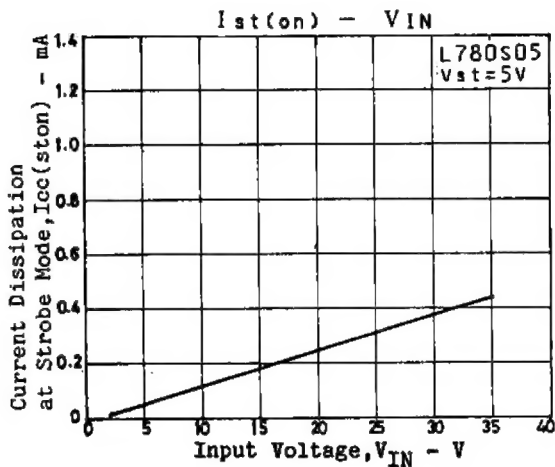
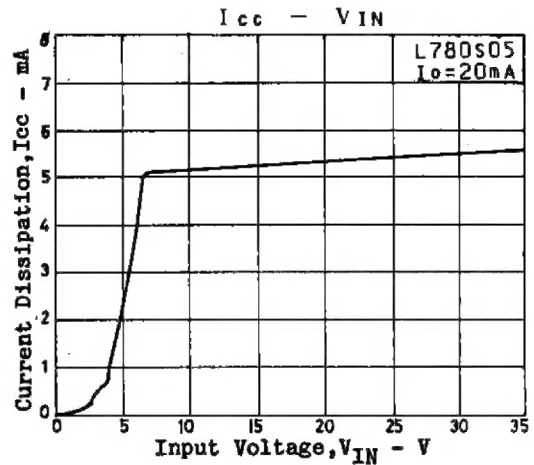
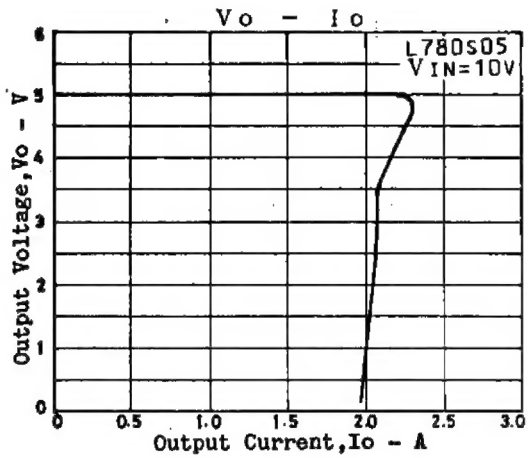
### Operating Characteristics at $T_j=25^{\circ}\text{C}, V_{IN}=33\text{V}, I_o=500\text{mA}, V_{st}=0\text{V}, *T_a=25^{\circ}\text{C}$

			min	typ	max	unit
Output Voltage 1	$V_{o1}$		23.0	24.0	25.0	V
Line Regulation 1	$\Delta V_{o1n1}$	$27\text{V} \leq V_{IN} \leq 35\text{V}$		18	480	mV
Line Regulation 2	$\Delta V_{o1n2}$	$30\text{V} \leq V_{IN} \leq 35\text{V}$		6	240	mV
Load Regulation 1	$\Delta V_{o1d1}$	$5\text{mA} \leq I_o \leq 1.5\text{A}$			480	mV
Load Regulation 2	$\Delta V_{o1d2}$	$250\text{mA} \leq I_o \leq 750\text{mA}$			240	mV
Output Voltage 2	$V_{o2}$	$27\text{V} \leq V_{IN} \leq 35\text{V},$ $5\text{mA} \leq V_{IN} \leq 1\text{A}$	22.8		25.2	V
Current Dissipation	$I_{cc}$				8.0	mA
Current Dissipation Variation (Line)	$\Delta I_{cc1n}$	$27\text{V} \leq V_{IN} \leq 35\text{V}$			1.0	mA
Current Dissipation Variation (Load)	$\Delta I_{cc1d}$	$5\text{mA} \leq I_o \leq 1\text{A}$			0.5	mA
Output Noise Voltage	$V_{NO}$	$10\text{Hz} \leq f \leq 100\text{kHz}^*$		180		$\mu\text{V}$
Ripple Rejection	$R_r$	$f=120\text{Hz},$ $28\text{V} \leq V_{IN} \leq 34\text{V}$	50	66		dB
Dropout Voltage	$V_{drop}$	$I_o=1\text{A}$		2.0		V
Output Short Current	$I_{os}$	$V_{IN}=35\text{V}$		0.75		A
Peak Output Current	$I_{op}$			2.2		A
Output Voltage at Strobe Mode	$V_{o(ston)}$	$V_{IN}=35\text{V}, V_{st}=5\text{V},$ $I_o=0, *$			0.8	V
Current Dissipation at Strobe Mode	$I_{cc(ston)}$	"			3.0	mA
Strobe Input Current	$I_{st}$	"			1.0	mA

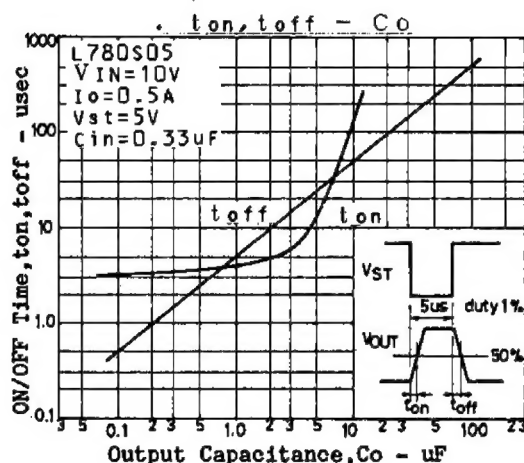
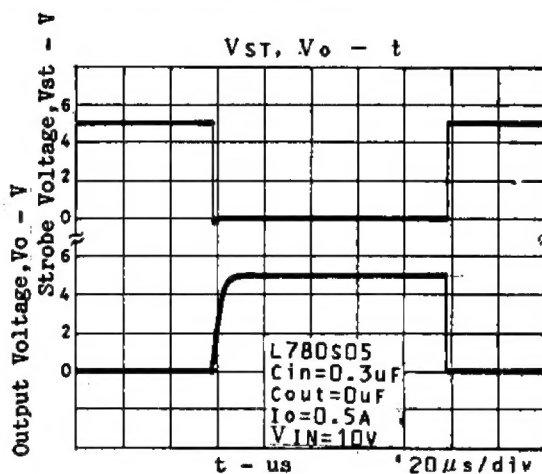
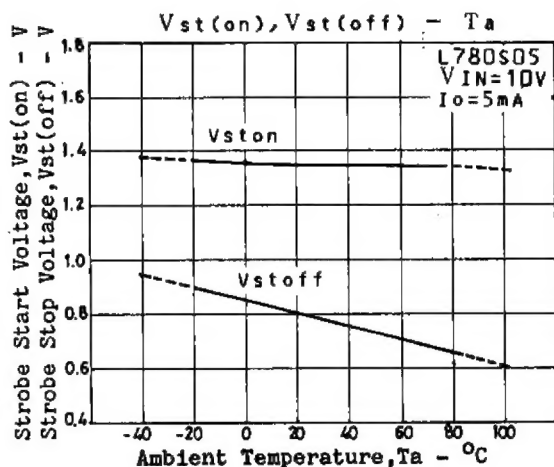
### Equivalent Circuit Block Diagram



# L780S00 Series







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